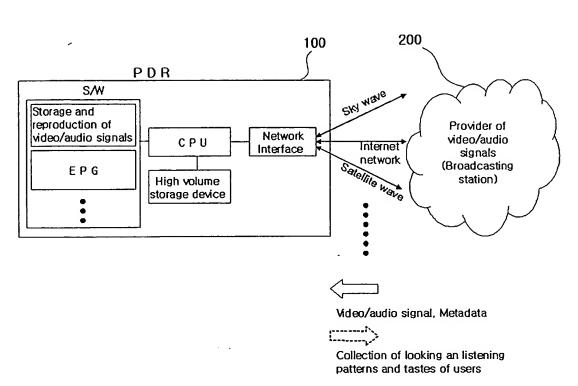


Q76494
10/623,621 Filed: July 22, 2003
Hyosep SHIN
INDEX STRUCTURE FOR METADATA, METHOD FOR
PROVIDING INDICES OF METADATA, AND
METADATA SEARCHING METHOD AND APPARATUS
USING THE INDICES OF THE METADATA
Page 1 of 12

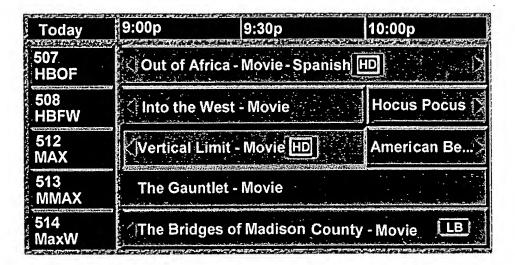
FIG. 1





Q76494
10/623,621 Filed: July 22, 2003
Hyosep SHIN
INDEX STRUCTURE FOR METADATA, METHOD FOR
PROVIDING INDICES OF METADATA, AND
METADATA SEARCHING METHOD AND APPARATUS
USING THE INDICES OF THE METADATA
Page 2 of 12

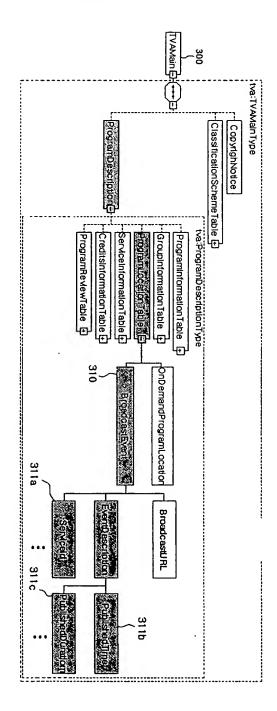
FIG. 2





Q76494
10/623,621 Filed: July 22, 2003
Hyosep SHIN
INDEX STRUCTURE FOR METADATA, METHOD FOR
PROVIDING INDICES OF METADATA, AND
METADATA SEARCHING METHOD AND APPARATUS
USING THE INDICES OF THE METADATA
Page 3 of 12

FIG. 3

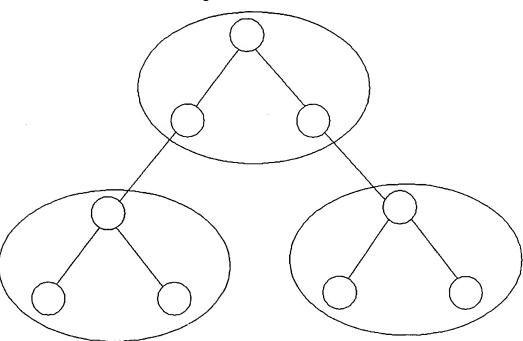




Q76494
10/623,621 Filed: July 22, 2003
Hyosep SHIN
INDEX STRUCTURE FOR METADATA, METHOD FOR
PROVIDING INDICES OF METADATA, AND
METADATA SEARCHING METHOD AND APPARATUS
USING THE INDICES OF THE METADATA
Page 4 of 12

FIG. 4

Fragment TVAMain



Fragment ProgramInformation

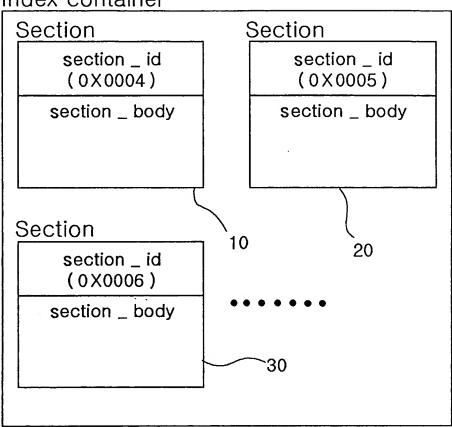
Fragment Broadcast Event



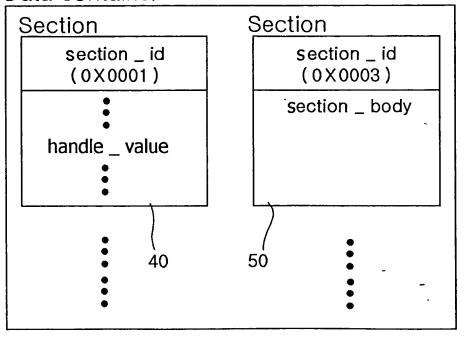
Q76494
10/623,621 Filed: July 22, 2003
Hyosep SHIN
INDEX STRUCTURE FOR METADATA, METHOD FOR
PROVIDING INDICES OF METADATA, AND
METADATA SEARCHING METHOD AND APPARATUS
USING THE INDICES OF THE METADATA
Page 5 of 12

FIG. 5





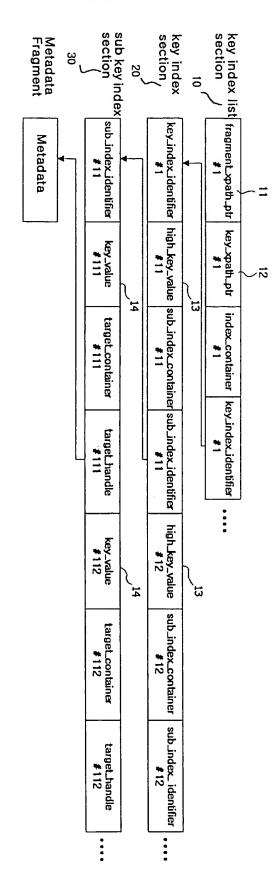
Data container





Q76494
10/623,621 Filed: July 22, 2003
Hyosep SHIN
INDEX STRUCTURE FOR METADATA, METHOD FOR
PROVIDING INDICES OF METADATA, AND
METADATA SEARCHING METHOD AND APPARATUS
USING THE INDICES OF THE METADATA
Page 6 of 12

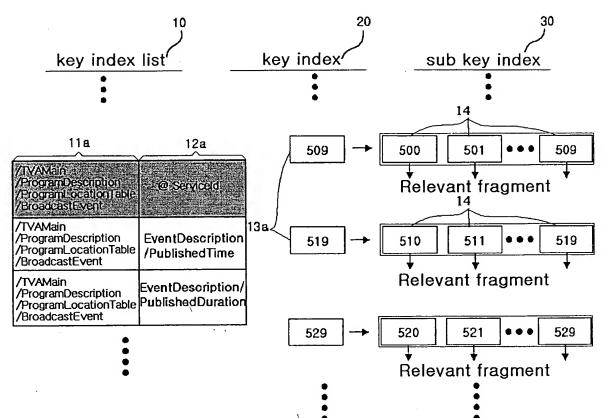
FIG. 6





Q76494
10/623,621 Filed: July 22, 2003
Hyosep SHIN
INDEX STRUCTURE FOR METADATA, METHOD FOR
PROVIDING INDICES OF METADATA, AND
METADATA SEARCHING METHOD AND APPARATUS
USING THE INDICES OF THE METADATA
Page 7 of 12

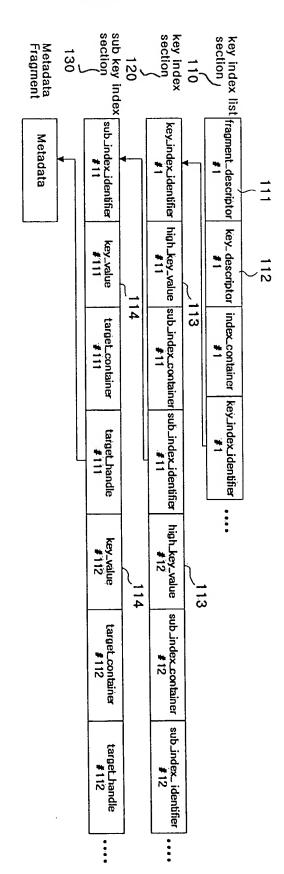
FIG. 7

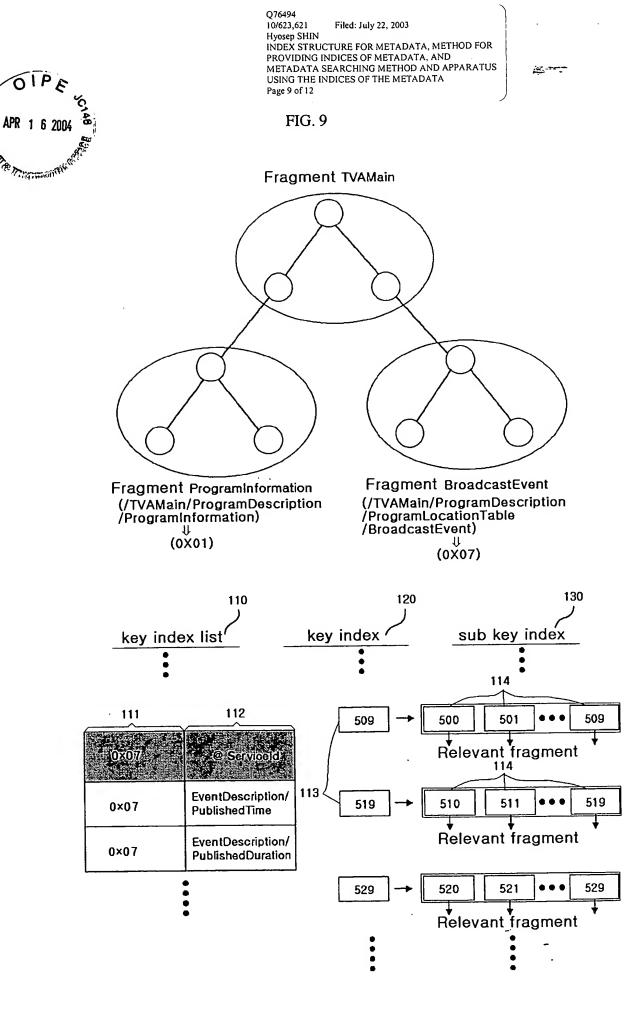




Q76494
10/623,621 Filed: July 22, 2003
Hyosep SHIN
INDEX STRUCTURE FOR METADATA, METHOD FOR
PROVIDING INDICES OF METADATA, AND
METADATA SEARCHING METHOD AND APPARATUS
USING THE INDICES OF THE METADATA
Page 8 of 12

FIG. 8

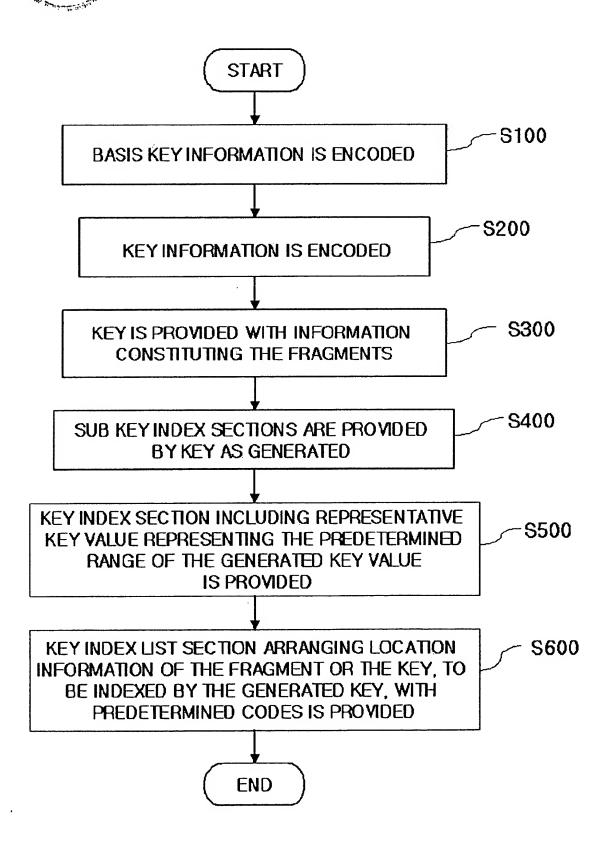




Filed: July 22, 2003 10/623,621 Hyosep SHIN INDEX STRUCTURE FOR METADATA, METHOD FOR PROVIDING INDICES OF METADATA, AND OIPE METADATA SEARCHING METHOD AND APPARATUS USING THE INDICES OF THE METADATA Page 10 of 12 APR 1 6 2004



O76494



Hyosep SHIN INDEX STRUCTURE FOR METADATA, METHOD FOR PROVIDING INDICES OF METADATA, AND METADATA SEARCHING METHOD AND APPARATUS USING THE INDICES OF THE METADATA Page 11 of 12 APR 1 6 2004 **FIG. 11** START S1100 SEARCH CONDITIONS ARE INPUT BYUSER LOCATION INFORMATION OF THE FIELD OF THE S1210 INPUT SEARCH CONDITIONS IN THE METADATA IS DETERMINED KEY INCLUDING CODE DEFINED IN KEY INDEX LIST S1300 SECTION AS LOCATION INFORMATION IS SEARCHED S1400 REPRESENTATIVE KEY VALUE MEETING THE S1410 SEARCH CONDITIONS IN KEY INDEX SECTION IS SEARCHED KEY VALUE METTING THE SEARCH CONDITIONS S1420 IN SUB KEY INDEX SECTION IS SEARCHED CONCERNED FRAGMENT IS EXTRACTED BY USE S1430 OF IDENTIFICATION INFORMATION OF THE FRAGMENT CORRESPONDING TO THE SEARCHED **KEY VALUE**

END

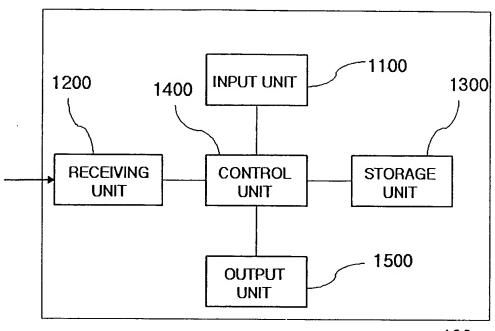
Q76494 10/623,621

Filed: July 22, 2003



Q76494
10/623,621 Filed: July 22, 2003
Hyosep SHIN
INDEX STRUCTURE FOR METADATA, METHOD FOR
PROVIDING INDICES OF METADATA, AND
METADATA SEARCHING METHOD AND APPARATUS
USING THE INDICES OF THE METADATA
Page 12 of 12

FIG. 12



100